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ABSTRACT

compiled is a selected bibliography of social sciences in forestry, including economic, historic, sociological, and business aspects. Pive major inclusive categories are the following: social science applied to forestry at large, applied to forestry's productive agents, applied to forest production, applied to manufacturing, and applied to marketing, trade, and demand for forest output. Arranged alphabetically by author, each entry contains the source of information, place and date of publication, volume number, and number of pages. A brief description of each resource is given. (RH)

SOCIAL SCIENCES in FORESTRY

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A AMERICAN FORESTRY ASSOCIATION. Papers presented before the Sixth American Forest Congress. American Forests 82(3): 10-17, 61-65. Mar 1976; 82(4): 8-15, 60-67. Apr 1976.

Papers include: Meeting needs for water, forage and minerals (G. R. Bagley); Meeting recreational, park and wilderness needs (G. D. David); Meeting wildlife and fisheries needs (L. A. Greenwalt); Meeting timber production needs (C. W. Bingham). Resources for 300 million (C. J. Hitch); Research and education (E. E. Palmer); Worldwide perspective (K. F. S. King); Moving ahead together (R. C. Clusen).

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Reminiscences and lessons from the author's 20-odd years with FAO. Scope and method of national forestry planning. Regional resource and requirements studies. Aid to developing nations; place of forestry in development. Exploitation of tropical forests; related industrial expansion. Failures of forestry aid programs for poor countries, such as to assist the common man, rehabilitate much devastated land, foster self-reliance. Chinese forestry as an example of a successful self-reliant program.

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- IRLAND, L. C. Howling in the wilderness: politics of forest land use in an environmental age. Connecticut Woodlands 39(4): 11-16. Winter 1974/75.
- C3 KUNKLE, S. H., and G. CHILD. Evaluation and planning for wildlands and forestry. Adhoc Expert Consultation on Land Evaluation—Rome, Italy. Food and Agriculture Organization of the United Nations. World Soil Resources Reports No. 45, pp. 119-126. Jan 1975.

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- STOCKER, G. C., and D. A. GILMOUR. Environmental and social influences affecting land-use planning in the forested areas of far North Queensland. Australian Forestry 37(3): 225-232. Mar 1975.
- C3 WAGAR, J. ALAN. Land-use planning: a view from Holland. Jour. of Forestry 74(1): 13-17. Jan 1976.

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Al ACAR, WILLIAM, and RICHARD P. SMITH. An aggregation method of setting cost-efficient targets for timber production and recreation opportunities on forested land. In English; French sum. Canadian Jour. of Forest Res. 5(4): 562-573. Dec 1975.

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Al ATTIWILL, PETER. The eucalypt forest--resources, refuges, and research. Australian Forestry 38(3): 162-170. Dec 1975.

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Al BURKE, RICHARD E. National forest visual managementa blend of landscape and timber management. Jour. of Forestry 73(12): 767-770. Dec 1975.

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The multiple demands made by society upon these forests are increasing and changing in emphasis. Choice among alternative forms of modification and use of these forests must aim to provide the greatest net benefit to society. Hence, economic evaluation is needed.

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A4 HUYLER, NEIL K. Tubing vs. buckets: a cost comparison. USDA Forest Serv. Northeastern Forest Exp. Sta. Res. Note NE-216, 5 pp. 1975.

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A5a EISENHOWER CONSORTIUM. Man, leisure, and wildlands: a complex interaction. Proc. of the First Eisenhower Consortium Res. Symposium, September 14-19, 1975, Vail, Colorado. Eisenhower Consortium Bul. 1, 286 pp. 1975.

Goals of the consortium: (1) increase understanding of the interactions between people and the environment; and (2) develop methods to provide for the wants of increasing populations while enhancing the attractive features of the environment.

A5a GOODALL, B. The recreational potential of Forestry Commission holdings. In Rep. on Forest Res., Forestry Commission, U.K. Pp. 73-76. 1974.

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A5a LUCAS, ROBERT C. Low compliance rates at unmanned trail registers. USDA Forest Serv. Intermountain Forest and Range Exp. Sta. Res. Note INT-200, 6 pp. Aug 1975.

Low compliance rates at voluntary trail registration stations mean some use-estimates based on trail registers may be unreliable.

A5a MEHORA, M. Instructions on the cultural and recreational organization of forest areas. In Slovenian; German sum. Gozdarski Vestnik 33(5): 261-274. 1975.

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A5a NICOLSON, J. A., and A. C. MACE, JR. Water quality perception by users: can it supplement objective water quality measures? Water Resources Bul. 11(6): 1197-1207. Dec 1975.



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A5a NIKOLAENKO, V. T., and N. I. BUKIN. Recreation forestry in France. In Russian. Lesnoe Khoziaistvo 4: 36-38. Apr 1975.

A5a POLZIN, PAUL E., and DENNIS L. SCHWEITZER. Economic importance of tourism in Montana. USDA Forest Serv. Intermountain Forest and Range Exp. Sta. Res. Pap. INT-171, 19 pp. 1975.

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A5a TYRE, GARY L. Average costs of recreation on national forests in the south. Jour. of Leisure Res. 7(2): 114-120. 1975.

Operation, maintenance, construction, overhead, and opportunity cost data were gathered for almost all kinds of site and area managed for recreation by the Forest Service in the South, and costs per visitor-day were computed. Costs vary considerably, but many recreation enterprises prove more expensive than expected.

A5a ULECK, RONALD B. Guidelines for preparing a master plan for a public resource-based outdoor recreation area. Dissertation, Ph.D. State Univ. of New York, Syracuse. 177 pp. 1975.

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- A5c BURANAREK, SINCHAI. National parks and recreation in the wilderness. In Thai. The Vanasarn 33(4): 341-346. Oct/Dec 1975.
- A5d FRID, ROSS. The visual management system: protecting aesthetics in forest management. Western Wildlands 2(2): 21-26. Spring 1975.
- A6 POTTER, BARRETT G. The "dirty thirties" shelterbelt project. American Forests 82(1): 36-39. Jan 1976.

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USDA FOREST SERVICE. Municipal watershed management symposium proceedings. USDA Forest Serv. Northeastern Forest Exp. Sta. Gen. Tech. Rep. NE-13, 196 pp. 1975.

A report on the symposium held in September 1973 at Pennsylvania State University and University of New Hampshire, containing 24 papers presented at the meetings.

LACKEY, ROBERT T. Recreational fisheries management and ecosystem modeling. Paper presented to the symposium on Comparison of Biological Predation and Fisheries Exploitation, sponsored by the Aquatic Ecology Section of the Ecological Soc. of America and the American Fisheries Soc., 26th Annual American Institute of Biological Sciences Meeting of Biological Soc., Corvallis, Oregon, August 17-22, 1975. 44 pp. 1975.

Discussion of models and modeling related primarily to fresh-water sport-fisheries management. The theme is that such management involves (1) aquatic fauna and flora, (2) their habitat, and (3) man. The third element, widely neglected by scientists, calls for emphasis.

ANDRESEN, JOHN W., and BARTON M. WILLIAMS. Urban forestry education in North America. Jour. of Forestry 73(12): 786-790. Dec 1975.

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A8 FRENCH, J. R. J. The concept of urban forestry. Australian Forestry 38(3): 177-182. Dec 1975.

Expanding urbanization places great physical, social, economic, and biological pressures on the forest resource. A conceptual proposal for creating and managing an urban forest.

A8 JONES, A. R. C., J. D. MAC ARTHUR, and E. R. THOMPSON.
An urban forest concept. Milieu Number 12. 48 pp. Jan-Mar 1976.

Urban forests are those that are located in or near population centers and are intensively managed, not only for wood and other forest products, but also for a variety of recreation and aesthetic services. Common in Europe, scarce in America, such forests hold sufficient promise in Canada so as to justify the necessary planning, research, and problem solving. The proposed Montreal airport buffer forest serves as an example.



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- B1 LAMBERT, HERB. Wood fiber--big in the economy today, bigger in coming decades. Forest Industries 103(1): 30-37. Jan 1976.

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B1 LEAK, WILLIAM B., and STANLEY M. FILIP. Uneven-aged management of northern hardwoods in New England. USDA Forest Serv. Northeastern Forest Exp. Sta. Res. Pap. NE-322, 15 pp. 1975.

Three main aspects of uneven-aged management in northern hardwoods: (1) choice of cutting method, (2) control of yields, (3) transportation or removal of products.

PALMER, J. R. Towards more reasonable objectives in tropical high-forest management for timber production. Commonwealth Forestry Rev. Vol. 54(3) and (4), Nos. 161 and 162: 273-289. Sep/Dec 1975.

Regional forest officers in tropical high-forest areas can be of great assistance to forest-based industries. Fields for collaboration between the forest service and the forest-based industries include forest inventory, timber testing, assistance with costings, development of low-cost housing schemes, machinery selection, and training programs.



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Papers included have to do with: What the forest and rangeland renewable resources planning act means to the timber industry (Session I); Political realities of land-use planning (Session II); Conflicting recreational demands on national forest roadless areas (Session III); and Oregon's future timber supply, public and private (Session IV).

B1 WHEELER, PHILIP R. How much timber can the southern forests produce? Forest Farmer 35(4): 10-11, 14, 18. Feb 1976.

South's timber-growing capacity and development needs.

BEATTIE, WILLIAM D. An economic analysis of the Brazilian fiscal incentives for reforestation. Dissertation, Ph.D. Purdue Univ. 321 pp. 1975.

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B3 HOLTAM, B. W. Forest practice in Britain is applied terrestial ecology. Arboricultural Jour. 2(8): 297-301, 1975.

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PORTERFIELD, RICHARD L., and DENNIS L. SCHWEITZER. A quick and data-poor approach to evaluating pre-commercial thinning. Jour. of Forestry 73(12): 771-773. Dec 1975.

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Characteristics of the residents of areas where fire occurrence is high. Motivation and identity of the incendiarist. Dissemination of fire-prevention messages. Problems in the social control of incendiarism, which appears to be "more a matter of culture than of socio-demographic characteristics." Louisiana and Mississippi.

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- E GREGERSEN, H. M. Use of the method of sectoral accounting in forestry sector planning. In Spanish. Food and Agriculture Organization of the United Nations, Forestry Dept. 71 pp. Feb 1975.
- E LANDOWNING IN SCOTLAND. Survey on curtailed investment in agriculture and forestry. Landowning in Scotland No. 159, pp. 52-55. 1975.



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A goal-programming procedure, illustrated by a hypothetical example, for planning timber regeneration and harvests so as to approach simultaneous maximum output and revenue from harvests and from regeneration investment and minimum regeneration cost.

E SCHULER, ALBERT T. Multiple-use resource management on national forests via goal programming. Dissertation, Ph.D. Iowa State Univ. 230 pp. 1975.

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AJb BERTELSON, DANIEL F. East Texas forest industries, 1974. USDA Forest Serv. South. Forest Exp. Sta. Resource Bul. S0-57, 20 pp. 1975.

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Alb SIMMONS, FRED C. Forest industry opportunities and problems in the Northeast. North. Logger and Timber Processor 24(7): 8-9, 26-27, 29. Jan 1976.



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Alb TESKEY, A. G., and J. H. SMYTH. The economic importance of sawmilling and other primary wood-using industries in Alberta, 1972. In English; French sum. North. Forest Res. Centre, Canadian Forestry Serv. Information Rep. NOR-X-145, 206 pp. Nov 1975.

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- Alb TESKEY, A. G., and J. H. SMYTH. Saskatchewan's forest industry and its economic importance. In English; French sum. North. Forest Res. Centre, Canadian Forestry Serv. Information Rep. NOR-X-140, 156 pp. Nov 1975.

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Alc FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, Forest Industries and Trade Division. Country tables of production, trade and consumption of forest products, Europe and USSR, 1960-73. In English, Spanish, and French. 136 pp. 1975.

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BARGER, R. L. Toward more complete utilization. Western Wildlands 2(2): 16-20. Spring 1975.

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GIBSON, DAVID F. Improved system productivity and resource utilization through computerized planning. In AIIE 1975 Spring Annual Conference Proc., 6 pp. 1975.

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NEWNHAM, R. M. The fortran program for logplan--a model for planning logging operations. In English; French sum. Forest Management Institute, Dept. of the Environment, Canadian Forestry Serv. Information Rep. FMR-X-78, 77 pp. Jun 1975.

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NEWNHAM, R. M. Logplan--a model for planning logging operations. In English; French sum. Forest Management Institute, Dept. of the Environment, Canadian Forestry Serv. Information Rep. FMR-X-77, 59 pp. Jun 1975.

The model has been developed to help the supervisor construct and evaluate one-year logging plans. The object of the model is to obtain a plan that will meet mill demands throughout the year at a minimum cost while satisfying constraints on available wood and machines.

NEILSON, R. W. Poplar utilization: a problem analysis. In English; French sum. Western Forest Products Laboratory, Forestry Directorate, Environment Canada Information Rep. VP_X-149, 65 pp. Oct 1975.

Poplar represents approximately one-half of the available hardwood resource in Canada, but only a small proportion of it is commercially utilized. This investigation attempts to determine the causes of this low level of use and identify areas where further research can lead to greater utilization.



WALBRIDGE, T. A., and W. B. STUART. Constraints on the utilization of our forest resources in the South. Jour. of Forestry 74(3): 157-159. Mar 1976.

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B3b MEYER, VERNON W. A program for improving volume and value recovery in logging operations. North. Logger and Timber Processor 24(9): 6-7. Mar 1976.

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Initial results of a yarding time study in the Pansy Basin, a cooperative research project designed to test the performance of skylines, balloons, and helicopters operating under various conditions of timber and terrain, and over a range of silvicultural and landscape design prescriptions.

Cla KAFKA, E. Forecasts of the development of the sawmilling industry in Bohemia/Moravia. In Czech; Russian, German, and English summaries. Drevo 29(9): 262-268. 1974.

A study of alternative forecasting models.

Cla MIHALYI, LOUIS J. Zambian timber output is growing. In English; French, German, and Spanish summaries. World Wood 17(2): 11-13, 27. Feb 1976.



Consumption of lumber in Zambia has been growing steadily with output from the copper mines, a large lumber user. Zambian forests are meeting over half of demands; imports provide the balance.

Cla MITCHELL, ADAIR, and PAUL KOENIG. Lumber and wood products: 1975 review and outlook for 1976. Pulp, Pap., and Board 31(4): 26-29. Jan 1976.

Housing slump hurt lumber and plywood industry in 1975. A better year is anticipated for 1976. The industry is striving to profit from its position as one of the lowest energy users and pollution producers.

Cla ROBINSON, VERNON L. An estimate of technological progress in the lumber and wood-products industry. Forest Science 22(2): 149-154. 1975.

Rate of technological progress in the lumber and wood-products industry is estimated by a method introduced by Solow in 1957. An aggregate production function is specified, with value-added as the measure of output, man-years as the labor input, and the book value of fixed and working capital as the other input. Technological progress is measured by the residual change in output after the influence of the labor and capital inputs is accounted for.

Cla TIMBER BULLETIN FOR EUROPE. Medium-term survey of trends in the sawnwood and sawlog sector. Timber Bul. for Europe 27, Supplement 3, 53 pp. 1974.

Output trends in Europe, North America, the USSR, and Japan. Trade patterns, principally for the period 1964-72, for lumber, logs, and railway ties.

C2a BHARGAVA, R. L. Pulp and paper industries development program, Phase 1. In English, French, and Spanish. Food and Agriculture Organization of the United Nations, Forestry Dept., Rome. 41 pp. Oct 1974.

World trends in production and consumption of pulp, paper, and paperboard; world raw material resources; role of developing countries in the international market; proposed long-term strategy.

C2a BUTTS, DONALD W., and LEONARD S. SMITH. Pulp, paper, board, and converted products: 1975 review and outlook for 1976. Pulp, Pap., andBoard 31(4): 5-12. Jan 1976.

Output, income, and employment, down in 1975, are foreseen to turn up sharply in 1976. As the largest user of fuel oil and third largest user of water, the industry expects to be increasingly involved in energy and environmental regulation.



C2a KING, K. F. S. It's time to make paper in the tropics. Unasylva 27(109): 2-5. 1975.

Fifty-five percent of the world's stocked forests are in developing countries, but only four percent of the world's pulp originates there. It is time for the pulp and paper investors from industrial nations and the governments of developing nations to accommodate each other's interests and build more paper mills in these forest-rich nations.

C2a SAWHNEY, R. S. Newsprint manufacture in India--the way ahead. Pulp and Pap. Mag. of Canada 77(1): 41-46. Jan 1976.

Facilities are being expanded and new projects are planned as the country strives to satisfy its newsprint demand by building up the industry on the basis of fast-growing tree species.

C2b DE JESUS, SIMEON. How to make paper in the tropics. Unasylva 27(109): 6-10. 1975.

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C2b SIKES, JOHN E. G. A clean piece of paper. Unasylva 27(109): 11-16. 1975.

Developments of the past decade in pollution control for pulp and paper mills, including legislation. Encouraging trends for the future.

C2c ADAMS, DARIUS M. A model of pulpwood production and trade in Wisconsin and the lake states. Forest Science 21(3): 301-312. Sep 1975.

An econometric model that considers pulpwood consumption, harvest, price, inventory, and movement between the subregions (Wisconsin and Michigan-Minnesota).

BERTELSON, DANIEL F. Southern pulpwood production, 1974.
USDA Forest Serv. South. Forest Exp. Sta. Resource Bul. S0-54,
24 pp. 1975.

Southern pulpwood production in 1974 reached a record high with a 4-percent increase over the previous year.

C2c BLYTH, JAMES E., and JEROLD T. HAHN. Pulpwood production in the Lake States by county, 1974. USDA Forest Serv. North Central Forest Exp. Sta. Res. Note NC-193, 4 pp. 1975.



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C3a IRLAND, LLOYD C. Outlook for softwood plywood to 1980.
Forest Products Jour. 25(11): 16-20. Nov 1975.

Though softwood plywood supply for 1980 is fairly easy to predict, the demand situation is uncertain and will be affected by housing construction, a shift to multiunit structures, and strong competition from particleboard and a variety of new composite panel products.

C3a JAUDON, J. L. South-east Asia, third large source of plywood. In French. Revue du Bois et de ses Applications 29(8/9): 32-41. 1974.

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C9 WILSON, J. B. Outlook for particleboard to 1980. Forest Products Jour. 25(11): 10-16. Nov 1975.

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Hedging in lumber and plywood requires a detailed plan complete with a sophisticated analysis of the cash and futures markets. A company can develop a sound hedge plan by identifying price risks, determining what and how much can be hedged, and developing a hedge price strategy.

TOWLER, R. W. U.K. imports of tropical hardwood.
(1) Analysis of past, present and future patterns; (2) Pre-sale processing of sawnwood and logs. Timber Trades Jour. 292(5133): 33-36; 293(5144): 33-36, 1974; 1975.

V APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT

The first part reports a study begun in 1971 based on a method of data collection termed "cargo analysis," in which selected cargoes of tropical hardwood were traced through the trade between October 1971 and September 1972. Results are tabulated and discussed. The second part tabulates the results of analyses of pre-sale processing and end-use consumption of sawnwood and logs.

SUNDERLAND, LAWRENCE B. Tariff preferences for developing countries affect forest products. Forest Industries 103(2): 32. Feb 1976.

Duty-free preferential treatment of many forest products, notably plywood and other manufactured wood products, help developing countries.

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Boards and dimension, dimension stock, flooring, cut stock, railway ties, and box shook, by species, destination, and year.

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 743, iv, 31, 98 pp. Oct 1975. (2) Birch three-ply door skins from Japan; information obtained . . . USITC Publ. 753, iii, 102 pp. Jan 1976. (3) Birch three-ply door skins from Japan; determination of injury . . . USITC Publ. 754, 24 pp. Jan 1976.
 - (1) Investigation under Trade Act of 1974 to find whether imports of birch door skins are injuring domestic industry. Finding negative. (2) Information gathered to find whether prices of imports from Japan violate Antidumping Act of 1921. (3) Trade Commission's report in the affirmative.
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Interviews with managers of 79 Oregon and California sawmills to determine their wood-residue production, use, and revenues and to identify market requirements for wood-fired energy systems.

DOBIE, J., and J. B. KASPER, Log values for hemlock and cedar from northwestern British Columbia. In English; French sum. Western Forest Products Laboratory, Canadian Forestry Serv., Dept. of the Environment Information Rep. VP-X-144, 20 pp. Mar 1975.



V APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT

Study of the yields and values of lumber and pulp chips from logs of western hemlock and western red cedar from the Terrace area of northwestern B.C. indicates that general conversion returns diminish as log defects increase.

BELLAMY, THOMAS R. Pulpwood prices in the southeast, 1974. USDA Forest Serv. Southeastern Forest Exp. Sta. Res. Note SE-228, 3 pp. Nov 1975.

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ON C., and R. L. CHOWDHARY. A suggested basis for pricing campsites: demand estimation in an Ontario park. Jour. of Leisure Res. 7(2): 95-107. 1975.

Camping season at a public park is divided into groups of days (experience types) that exhibit different demands. Consumer surplus and demand for each type is figured by Pearse's method. Based on the results a discriminatory pricing system is suggested so that camping fees will more accurately reflect the marginal benefits of the last campsite on any given day.

WILLIS, C. E., J. J. CANAVAN, and R. S. BOND. Optimal short-run pricing policies for a public campground. Jour. of Leisure Res. 7(2): 108-113. 1975.

Limited supplies of public campground facilities may be allocated on the basis of price or nonprice rationing procedures. The presumption that the demand for campsites is extremely inelastic underlies much of the hesitancy to employ price rationing for allocation. This study argues that where substitutes exist, campsite demand may not be price inelastic. This possibility is investigated for a particular campground in Massachusetts.

